

ABSTRACT OF THE DISCLOSURE

A nozzle hole of a conductive nozzle plate exposes the liquid surface of conductive ink. Ultrasonic generation means vibrates the ink for forming fine surface waves on the liquid surface so that the ink is sprayed from the nozzle hole as an atomized liquid particle group. A back plate provided on the opposite side of the nozzle hole in relation to a printing paper is supplied with a potential different from that for the nozzle plate, so that an electric field is formed therebetween. The sprayed liquid particle group is charged and hence urged by this electric field to adhere to the printing paper.

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